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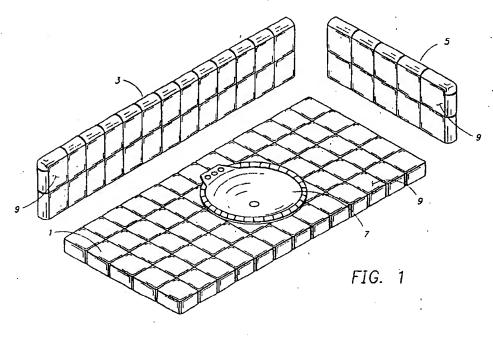
EUROPEAN PATENT APPLICATION

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(54) Complete prefabricated tile counter in components

(57) A complete pre-fabricated tile counter is described that is already tiled and grouted and ready for installation upon a cabinet or other substructure, with or without a back splash or side splash panel. Counter tops including built-in sinks, and counters and splash panels

may be produced economically in any style, shape and tile selected by a homeowner or builder prior to installation at a site. The invention counters are designed to be installed easily by the average homeowner or builders, in a minimum of time and with little mess to be cleaned up.



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Description

[0001] This invention relates to the installation of tiled counters in locations such as bathrooms and kitchens.
[0002] At present, the installation of tiled counters is a messy, often difficult and time consuming work project, even when performed by experienced professionals. After the tiles have been selected and cost estimated, a skilled tile-setter has to come to the work site (kitchen or bathroom) and do the work. This work involves the use of many materials such as mortar, sheetrock or cement board, thinset and grout, leaving bits and pieces to be cleaned up.

[0003] The workmanship and quality of the installed counter is subject to the skill of the tile-setter, which is usually unknown to a homeowner at the time of contracting. If the homeowner finds the work to be shoddy or otnerwise unsatisfactory, a dispute can arise that may be difficult to settle amicably. For builders who install counters in newly built houses, the problem is one of quality control as well as the installation time and cost As present, even the smallest counter would take two days to complete.

[0004] Normally, a tile for a counter is first selected by the customer before installation and the customer must 25 altempt to visualize what the completed product will look like. Such judgements are not easily made, sometimes leading to negative results where both customer and installer are disaffected. In this case, the customer usually has no choice but to live with the resulting installation. 30 although it may be unsatisfactory.

[0005] At the present, even the smallest counter would take at least two days to complete by professional installers, causing unwelcome irritation of homeowners. This installation time and cost is even more important in 35 commercial applications.

[0006] There have been a number of approaches to easing the problems and difficulties inherent in the time honored methods of installing tiled counters and walls for a bathroom and kitchen. Some involve pre-fabrication of various parts. However, all still require considerable tiling work to be performed by a skilled person at the installation site. An example is a recently issued U. S. Patert No. 5,816,005 by Han, who describes a prefabricated tiled panel.

[0007] For installing on a counter or wall, the panels have to be individually placed on a counter base or wall surface and each fastened in place before adding the next panel until all are completed. A number of tiles are left off each panel to allow for fastening the panel to a base or wall. The panel edge trim is also generally omitted from the prefabricated panel.

[0008] While the Han approach described above is definitely an improvement on the current industry wide methods, it still requires the services of a skilled file setter on site to install an properly join the panels. He must also install the missing tiles described above and other tiling such as edge trim; all of which has to be done on

site, leaving a mess to be cleaned up. Furthermore, the Han approach does not permit a customer to see what a finished counter will look like before installation and before the customer commits to a tiled configuration.

[0009] There remains a universal need by homeowners and building contractors to overcome the ongoing problems of cost, quality control, customer inconvenience and possible dissatisfaction that are inherent in the current methods of installing a tiled counter or other tiled portion.

[0010] The invention is a complete pre-fabricated tile counter top that is already tiled and grouted and ready for installation upon a cabinet or other substructure, with or without a back splash or side splash panel. The counter top and any splash panels would be done in any style, shape and tile desired and selected by a customer and could include sinks. No tiling of any sort need be done on the installation site. The counter top and splash panels can be produced economically and installed quickly on site in a neat and orderly manner, requiring little installation skill.

[0011] One embodiment is a prefabricated counter top for mounting on a cabinet and including at least one laminated substrate body having a base board member and a surface board member with a layer of adhesive sandwiched therebelween. The substrate body includes a top surface and at least one edge surface coated with an adhesive to which tiles are adhered thereto. The substrate body further includes a bottom surface for complementally mounting on the cabinet. After assembly, such counter top is transportable to the cabinet site to be installed thereon.

[0012] In another embodiment, a single layer slab is provided and includes a top surface and an edge surface coated with an adhesive to which tiles are directly adhered thereto. Such slab is typically formed of either a rigid foam polystyrene or rigid plastic material.

[0013] In yet another embodiment, a plurality of prefabricated counter top sections is provided to form a multi-sectional elongated counter top and a method for joining these sections is also described herein.

[0014] It is one object of this invention to provide a complete, pre-fabricated tiled counter plus splash panels capable of being installed easily and quickly by relatively unskilled persons.

[0015] Another object is to provide a complete tiled counter that can be viewed by a customer prior to installation.

[0016] Yet another object is to provide a complete tiled counter that can be produced in any shape, design and tile color that meets a customer's requirement and preference.

[0017] A major advantage of this invention over existing methods is its considerably lower cost.

[0018] Another advantage is its minimal installation time and thus minimal disruption at an installation site.

[0019] Further objects and advantages of the invention will be apparent from studying the following portion

of the specification, the claims and the attached drawings.

[0020] In the accompanying drawings

FIG. 1 is a perspective of a typical counter top and splash panels according to the present invention: FIG. 2 is a back elevation view of a splash panel according to the present invention;

FIG. 3 is a bottom end view thereof, particularly showing the layers and components comprising a splash panel;

FIG. 4 is a partial view of a counter top substrate according to the present invention, particularly showing some tiles installed and how the substrate open edges are covered prior to fastening tiles in place; FIG. 5A is a cross-section view of a preferred embodiment counter along 5-5 of FIG.4 showing the component parts and layers comprising a substrate:

FIG. 5B is a cross-section view an alternate embodiment counter, fully assembled with tiles installed;
FIG. 6 is a perspective view of a complete counter top in position for installing on a cabinet, particularly showing L-shaped brackets attached to the counter bottom; and

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FIG. 7 is a partial plan view of two counter sections attached at their joining edge by a taped adhesive.

[0021] Referring particularly to the drawings, there is shown in FIG. 1 a perspective view of a typical complete tiled counter top 1, tiled back splash panel 3 and tiled side splash panel 5 according to the present invention ready for installation at a site. A single inset sink 7 is shown included in the counter top 1. However, there may be more than one sink 7 included or none at all, leaving a blank top depending on the customer's requirements. A sink may also be inset as depicted in FIG. 1 or top set if so desired. Similarly, the tiles 9 may be of any type, material, size and color, arranged in a pleasing design.

[0022] In practice, a number of different design counter tops would be produced, allowing a customer to view and select a counter top prior to installation. Counter tops may also be specially designed and fabricated to a customer's specification. This is particularly advantageous in cost and time for builders of design homes and other buildings requiring a few fixed counter designs in quantity.

[0023] In the following drawing figures to be discussed, some include features that are exaggerated in relative size. This has been done to ensure ease of understanding the invention construction as drawn, and should not be construed as being relative dimensions.'

[0024] Refer now to FIGS. 2 and 3 which are respectively, a back view of a back splash panel 3 and a bottom end view of the same panel 3. A side splash panel 5 is constructed identically to a back splash panel 3. Both splash panels are fabricated using a rigid back board 15

to which a layer of adhesive 17 such as thinset or mastic is spread and the front tiles 9, top edge trim tiles 11 and side edge trim tiles 13 are grouted and adhered thereto. If so desired, a splash panel would be installed after the countertop 1 was installed, in a manner in which the tile grout joints in the splash panel would line up with the counter top 1. This is accomplished by applying a silicone or other caulking material to the back of the splash panel and pressing it to the wall while shimming the splash panel so as to provide a dimensional acceptable joint space between the counter top and the splash panel. In the event that there are adjacent back or side splash panels, there would be the same joint spacing between them as well, usually equal in size to a typical grout joint in the counter top 1. These joints would finally be caulked not grouted, in accordance with Tile Council of America standards after the panels have dried in place and the shims have been removed.

[0025] The splash panel back board 15 which serves as a base for the tiles, may be a cement board, green-board, sheetrock, styrofoam, wood sheet, "Dens-Shield", or External Insulation and Finish Systems (EIFS) which is marketed under the trade name "DRY-, VIT". If a wood back board is used as the base, it will be necessary to add a waterproof membrane over the wood before adhering the tiles.

[0026] Any kind of tiles may be used to provide the splash board tiled surface. These include ceramic tiles, stone tiles, thinbrick tiles, quarry tiles, mosaic tiles, concrete tiles and simulated stone tiles, etc. These tiles may also be used for tiling the counter top surfaces.

[0027] Referring now to FIG. 4, there is shown a partial top view of the substrate of a preferred embodiment counter top 1, with portions cut away showing the major components that form the substrate. These components are: a rigid top surface board 20, a rigid base board 22 which is bonded to the top surface board 20, three edge strip board, one of which is located covering the front edge 26 and two side strips, and self adhesive drywall crack tape 28.

[0028] The counter top 1 is produced using the following steps:

- 1. A sheet of plywood or other rigid subpanel material is selected for the base board 22 and cut to the desired dimensions and shape to fit on a cabinet. A hole 24 for a sink is cut if a sink is required.
- 2. A surface board 20 is selected and cut to fit exactly over the base board 22. The surface board material may be cement boards, greenboard, styrofoam, EIFS, "Dens-Shield", rigid sheet plastic, drywall or sheetrock.
- 3. Mastic or thinset mortar is spread over the base board 22 and the surface board 20 is laminated to it by clamping and pressing the two together, forming a single rigid base.
- 4. Edge strip boards 26, which are small strips of surface board, ate attached with mastic or thinset

monars covering all the base edges where the base board 22 and surface board 20 are joined and that would be exposed for tiling.

Self adhesive drywall crack tape 28, which is a fine fiberglass mesh strip treated with adhesive, is applied to all exposed substrate joints.

6. Finally, the tiles 9, 10, are set and grouted in place. If an inset sink 7 such as shown in FIG. 1 is to be installed, the sink cutout 24 on the surface board 20 will be larger than the cutout on the base board 22, allowing the sink to fit in and drop onto a ledge, placing it 1/2 in. to 3/4 in. below the top surface of the tiles 9. Appropriate tile trim units can then be grouted in place to cover the exposed sink rim and to complete the counter top.

[0029] A top set sink may be installed in the counter top either at the time of tiling or at a later time.

[0030] FIG. 5A is a cross-section view of the preferred embodiment counter top 1, taken along line 5-5 of FIG. 20 4. It clearly shows the result of the counter top production steps briefly described above, excepting the installation of the top tiles. The mastic or thinset adhesive layers 25 arc shown in place as is the crack tape 28. The substrate assembly so described, is rigid and strong enough to support the weight of the tiles and any normally expected weight to be placed on the counter without bending or cracking. As with all tiled counter tops that are presently fabricated and installed at a customer's site, a complete pre-fabricated counter top 1 must 30 be properly supported by the cabinet on which it is installed.

[0031] Refer now to FIG. 5B. This is a cross-section of an another embodiment of counter top 1. Staring from the bottom, the components comprise a rigid wood sheet base board 21, a waterproof membrane sheet 23 covering the top and sides of the base board 21, self-adhesive drywall crack tape 28, mastic or thinset mortar 25 which is spread over the substrate top surface and crack tape, and tiles 9 set and grouted on the top surface and on the sides 10.

[0032] A waterproof membrane 23 is required to protect the wood base board from any spilled liquid that may enter through cracks in the tiles. The base board 21 may be a plywood sheet or any other rigid wood panel, so long as it has the requisite dimensions and strength.

[0033] Another alternate embodiment counter top 1 would be the use of a single, solid piece of styrofoam or plastic, that is tiled and grouted, and ready to install on a cabinet.

[0034] For installing a pre-fabricated complete counter top 1 such as shown in FIG. 1 on a cabinet in a kitchen or bathroom, the counter top would usually be placed on the cabinet and adhered from below with adhesives and caulking material. However, when used for bathroom vanity tops, which is an ideal application, the counter top would need some means of preventing it being shifted laterally off a vanity cabinet. Such a means is

illustrated in FIG. 6.

[0035] A vanity cabinet 32 is usually constructed having top edges defining a rim 36 around the cabinet top to support a counter top. For this application, the prefabricated counter top 30 could include a number of Lshaped brackets 34 that are fixed to the bottom surface of the counter top 30, located spaced apart around the counter top perimeter. For installation, caulking is placed on the upper edges 6 of the cabinet and the counter top is simply laid upon the cabinet and adhered to it. The brackets will effectively prevent any lateral shifting of the counter top with respect to the cabinet. In addition, if a topset sink is used, its attachment would also help secure the counter top in place. It will be appreciated that other well known interference members may be used without detracting from the scope of the present invention. Additionally, such interference members could be attached to the cabinet for additional security. [0036] Finally, there are some applications where the required counter tops and/or splash panels are very long. For these applications, it would be necessary to split the counter top and/or splash panels into two or more completed sections.

[0037] FIG. 7 illustrates the recommended method of joining these completed sections when they are installed. The counter top or splash panel sections 40 are tiled 9 leaving an untiled space at the section edge 42 which is to be joined. When the sections are installed on a cabinet or wall surface and placed edge 42 to edge as shown in FIG. 7, it will leave a space "A" one tile wide between the tiled areas. It is not necessary that the tile width is evenly distributed across the joined edges. The edges 42 are covered with a strip of self-adhesive drywall crack tape 44 and filled and coated with a fast-setting joint compound. After allowing time for the joint to dry, tiles are grouted in place to cover the untiled edge area, and installation of the sections is finished.

[0038] The invention counter top and splash panels would be ideal for do-it-yourselfer's as it would be relatively simple to install. The product would eliminate the present need to locate tile-setters, get quotations, have a tile-setter come to the home and hope the workmanship was up to standard. With this product easily available, the workmanship would be known at the time of purchase by the homeowner, and the counter top and splash panels could be installed by a cabinet installer, a plumber or a homeowner. There should also be a cost benefit to the homeowner as well as a minimum of mess to be cleaned up and a minimum of inconvenience and time delays. For example, a small counter could be installed in about an hour.

[0039] Builders will also benefit from this as they could greatly reduce the need for skilled tile-setters and the time consuming and messy operation that this type of work normally involves. It would also reduce the occurrence of unsatisfactory workmanship as the builder too would be able to view the complete counter and splash panels before they were installed at a site.

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[0040] The cost of the completed product would be substantially less to a builder than the present day methods of installing tiled counter, and the impact to a construction schedule would be significantly improved.

Claims

 A transportable, prefabricated tiled counter top assembly for convenient installation on a cabinet having a mounting rim, the counter top comprising:

at least one elongated laminated substrate body having a base board member, a surface board member, and a first adhesive layer sandwiched between said board members. said body being formed to fit on said cabinet and providing a top surface and at least one edge surface, said top and edge surfaces forming a tile adhesion region, and a bottom mounting surface for complementally attaching to said mounting rim;

a second adhesive layer coating said tile adhesion region; and

a plurality of tiles arranged in a predetermined pattern in covering relationship with said second adhesive layer whereby said tiled counter top may be assembled at an assembly site and transported to a permanent installation site to be installed on the cabinet using a preselected adhesive material applied between the bottom surface of said body and the cabinet mounting rim.

 The counter top as set forth in claim 1 further including:

at least one splash panel including a backing board having a lowermost edge and a tile supporting surface, a layer of tile adhesive coating said tile supporting surface, and a layer of tiles affixed to said tile adhesive coating and, whereupon installation of said splash panel and said substrate body, said splash panel is positioned with said layer of tiles facing said substrate body and said lowermost edge is placed substantially proximate to an edge of said substrate body to form a joint to be filled with a filling material.

3. The counter top as set forth in claim 1 wherein:

said tile adhesion region includes at least one trim region requiring non-uniformly sized tiles; and

at least one trim tile affixed to said second adhesive in said trim region.

4. The counter top as set forth in claim 1 wherein:

said body includes at least one cutout extending between said top and bottom surfaces for placing a sink therein.

5. The counter top as set forth in claim 1 wherein:

said first adhesive is comprised of cementitious material.

 The counter top as set forth in claim 1 further including:

> an interference member attached to said bottom surface of said substrate body for preventing said substrate body from shifting relative to the cabinet in a predetermined direction.

The counter top as set forth in claim 1 further including:

at least two elongated substrate bodies placed in end to end abutting relationship to form between the ends thereof an exposed joint; and said joint is covered by a tape material.

The counter top as set forth in claim 1 further including:

at least one edge strip sized to match the thickness of said substrate body and adhered to said substrate body and disposed between said edge surface and said second adhesive.

The counter top as set forth in claim 1 further including:

a waterproof membrane sheet covering the top surface of said base board.

10. A transportable prefabricated tiled and grouted counter top for convenient installation on a cabinet having a mounting region with a predetermined configuration, the counter top comprising:

> a single layer rigid base slab having a top surface, at least one edge surface, and a bottom surface providing a mounting surface complementing the predetermined configuration of cabinet's mounting region:

> an adhesive layer coating said top and edge surfaces; and

a plurality of tiles arranged in a predetermined pattern in covering relationship with said adhesive layer and adhered thereto whereby said counter top may be assembled at an assembly site, transported to the site of said cabinet, and

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11. The counter top as set forth in claim 10 wherein:

said base slab is formed of a foam polystyrene material.

12. The counter top as set forth in claim 10 wherein:

said base slab is formed of a plastic material.

13. A method for joining sections of a prefabricated counter top to form a multi-sectional elongated counter top covered with tile of a predetermined width comprising the steps of:

providing at least two laminated substrate bodies having respective upper surfaces with a tiled region covering at least a portion of said upper surfaces and a marginal untiled region proximate respective abutment edges;

placing said abutment edges of said bodies in abutting relationship to form a joint positioned within said marginal untiled regions which cooperate to form an untiled strip substantially the width of one said tile:

covering said joint with a tape material;

filling and coating said tape material with a fast setting joint compound; spacing said tiles on said tape material to form 30

spacing said tiles on said tape material to form grouting gaps and covering said joint such that each said tile overlaps said joint; and grouting said grouting gaps.

14. A complete prefabricated tile counter comprising:

(a) a tiled counter top adapted as a single unit, said counter top comprising a flat substrate body and a tile material affixed to a top surface and edges of said substrate body; said substrate body comprising: a flat base board member, a surface board member, said base board member having an adhesive spread over its top surface and said surface board member faminated to said top surface, forming a single rigid flat base; a plurality of edge strip boards, said edge strip boards sized in width to match the thickness of said base, said edge strip boards being adhered with said adhesive to the side edges of said base, covering all base board and surface board joint edges that would be exposed for tilling; and a self-adhesive drywall crack tape, said tape being adhered to the top surface and side edges of said base, covering any exposed substrate joints; (b) means for preventing lateral shifting of said counter top after installation on a cabinet; (c) a plurality of tiled splash-panels adapted as units, sized and

matched to be installed with said counter top at a user site, each of said splash panels comprising a back board member having a planar front surface and a back surface parallel with said front surface, and tile material affixed to said front surface, and to side edges of said back board member; said counter top being ready for mounting and attachment to a cabinet top with adhesives, said splash panels being ready for mounting on walls next to said counter top using adhesives applied to the back surface of said panels.

15. The tile counter as defined in claim 14 wherein:

said counter top includes a plurality sinks that are inset or topset in the tiled top surface of said counter top, said sinks being adhered with mastic or thinset mortar to the edges of sink cutouts in said substrate body, caulked in place and finished with trim tiles that cover the exposed sink rims, said sinks being ready for connection to plumbing when said tile counter is installed at a site.

16. The tile counter as defined in claim 14 wherein:

said means to prevent lateral shifting of said counter top after installation on a cabinet, includes a multiplicity of "L"-shaped metal brackets that are fastened to the bottom surface of said substrate body and located around the substrate surface perimeter, said brackets adapted to impinge on the walls of the cabinet and prevent lateral movement of said counter top.

- 17. The tile counter as defined in claim 14 wherein:
 - said surface board member material is a cementitious material.
- 18. The tile counter as defined in claim 14 wherein:

said surface board member material is formed of a rigid polystyrene material.

19. The tile counter as defined in claim 14 wherein:

said surface board member material is formed of a rigid sheet plastic material.

20. The tile counter as defined in claim 14 wherein:

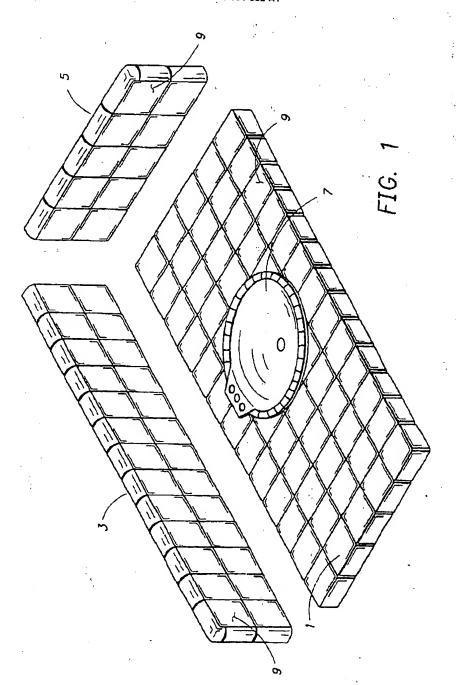
the material of said back board member in said splash panels is a wood sheet including a waterproof membrane adhered to the sheet front face and edges, to which said tiles are to be affixed.

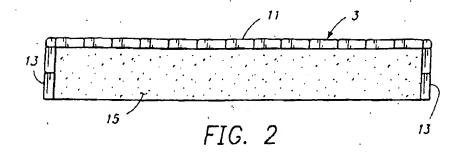
21. The tile counter as defined in claim 14 wherein:

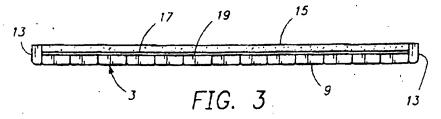
said substrate body inloudes a flat, rigid wood sheet base board, a waterproof membrane sheet which covers and is adhered to the top surface and sides of said base board, and self-adhesive drywall crack tape adhered to said membrane sheet over all substrate body edges; said substrate body being ready for affixing tiles using mastic or thinset mortar spread on the top and side edge surfaces of said substrate body.

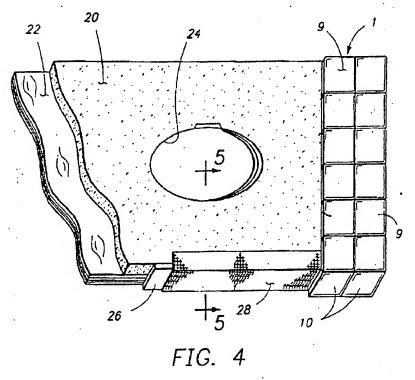
- 22. A method of joining completed sections of counter tops or splash panels that are fabricated according to claim 1 in order to make very long counter tops or panels, the method comprising the steps of:
 - leaving an untiled space one half a tile wide at each of the section edges to be joined;
 - (b) placing the edges of two sections to be joined together so that there is a single tile width untiled space strip between the sections, and covering the joint edge area with a strip of self-adhesive dry wall crack tape;
 - filling and coating the crack tape with a fast setting joint compound;
 - (d) drying the joined area in air; and
 - grouting and setting tiles in place to cover the untiled space strip over the joined section edges.

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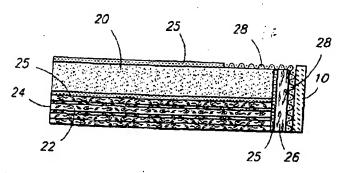


FIG. 5A

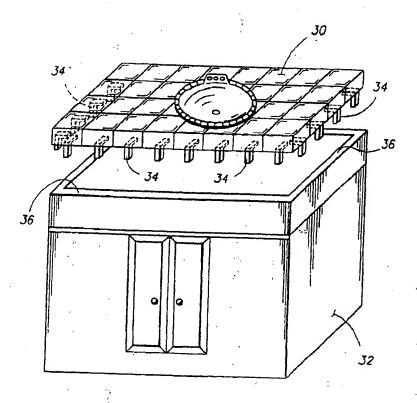
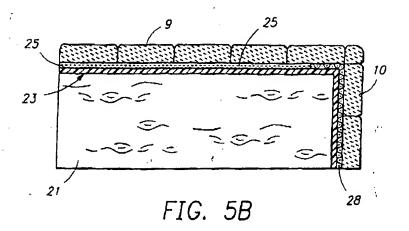
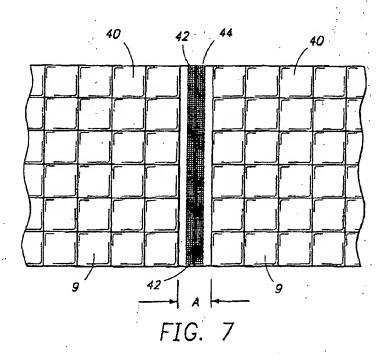


FIG. 6





EP 1 181 882 A1



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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 30 7336

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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